



## IBM\* PC VIDEO CONTROLLER CARD FOR LCD FLAT PANELS LM1012GC SERIES

CATALOG NO. LM1012GC

The LM1012GC-X is an intelligent interface card for operating Densitron's broad range of 200 × 640 and 400 × 640 LCD graphic panels from an IBM PC/XT/AT or compatible PC. The card easily connects to the 9-pin "D" type video connector of the existing CGA or EGA card in the PC. The wide variety of Densitron Supertwist LCD panels connect directly to the LM1012 via a ribbon cable.

The LM1012 is compatible with any existing CGA or EGA software. The card generates the negative voltage required for LCD operation. Contrast adjustment for the display can be achieved via the on-board potentiometer or by a potentiometer located externally to the card.

The combined assembly of an LM1012 and a Densitron LCD allows the user to locate the display up to a typical distance of six feet from the PC.

### FEATURES

- Simple video connection to any IBM type PC
- CGA and EGA software compatible
- Compact sized interface card - 5" × 4-1/2" (125mm × 110mm)
- Lower power consumption than CRT monitors
- Displays supported - 200 × 640 and 400 × 640 LCD panels



### APPLICATION BENEFITS

- Replace any existing CRT monitor with an LCD
- Allows a reduction in desk space
- Offers complete portability for PC-controlled displays
- Use display in harsh environmental and outdoor conditions

### ENVIRONMENTAL SPECIFICATIONS

- Voltage requirements  
+5V
- Power requirements  
1W
- Operating temperature  
0°C to +70°C
- Storage temperature  
-20°C to +90°C
- Humidity  
0 to 95% non-condensing

**InTELaTECH inc.**

1115 Crestlawn Drive, Suite 1  
Mississauga, Ontario L4W 1A7  
Tel: (416) 629-0082 Fax: (416) 629-1795

\*IBM is a registered trademark of International Business Machines.



**DENSITRON CORPORATION**  
**INFORMATION DEVICE DIVISION**

A Member of the DENSITRON INTERNATIONAL PLC GROUP  
2540 West 237th Street, Torrance, California 90505 U.S.A.  
Phone: (213) 530-3530 ■ Facsimile: (213) 534-8419 (G2/G3) ■ Telex (II): 910-349-6200 DENSITRON TRNC

# SPECIFICATIONS

## ORDERING INFORMATION

INTERFACE CARD	DISPLAY NUMBER	DISPLAY FORMAT	MODE OF OPERATION	INTERFACE CARD	DISPLAY NUMBER	DISPLAY FORMAT	MODE OF OPERATION
LM1012GC-B	LM205	200 × 640	CGA	LM1012GC-G	LM218	400 × 640	EGA**
LM1012GC-B	LM240	200 × 640	CGA	LM1012GC-G	LM638	400 × 640	EGA**
LM1012GC-B	LM645	200 × 640	CGA	LM1012GC-G	LM643	400 × 640	EGA**
LM1012GC-B	LM678	200 × 640	CGA	LM1012GC-G	LM858	400 × 640	EGA**
LM1012GC-B	LM879	200 × 640	CGA	LM1012GC-G	LM853	400 × 640	EGA**
LM1012GC-G	LM213	400 × 640	EGA**				

\*\*EGA resolution is 640 × 350.

## HARDWARE DESCRIPTION

The LM1012 is designed around the powerful SED1341 video controller chip. The card receives the RGB video signals from the CRT video output of the PC and converts the information to signals required by the LCD. The card can operate with standard CGA or EGA video rates which are IBM-compatible (14.318MHz for CGA and 16.257MHz for EGA).

The LM1012 has on-board switches which initialize the required mode of operation. The card also has a set of six digital switches which allow the user to fine-tune the timing to match the video output from the PC.

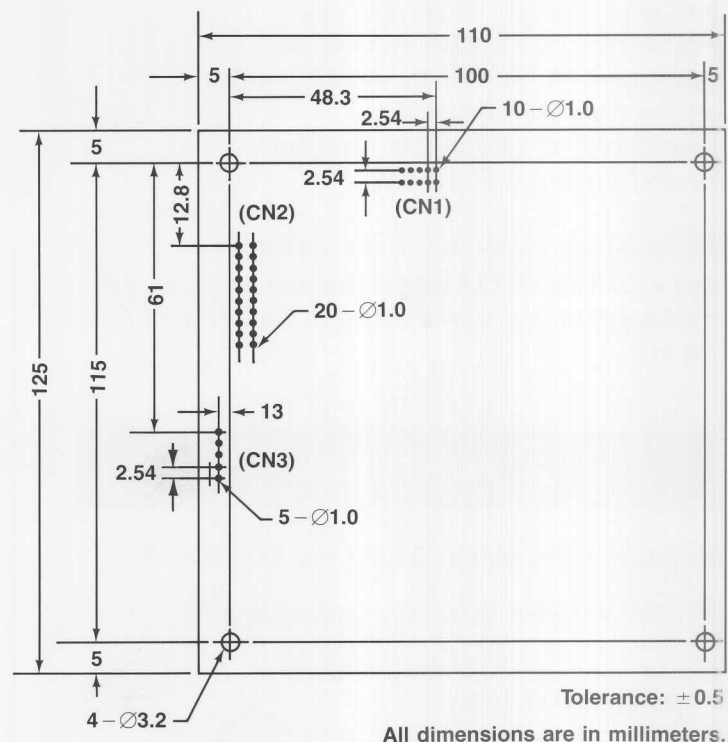
## COMPATIBILITY

- CGA and EGA compatible (no gray scaling supported)
- CMOS technology - low power
- IBM PC video output

## OPTIONAL ACCESSORY

- 1012TB - interface transition board available

## MECHANICAL DRAWING



All specifications subject to change without notice.



### DENSITRON CORPORATION

Kyowa Nanabankan 5F, 1-11-5, Omori-Kita, Ota-Ku, Tokyo 143 Japan ■ Tel. No.: (03) 767-9701  
FAX: (03) 767-9709 ■ TELEX: J26914 DENSITRO J



### DENSITRON CORPORATION

2540 West 237th Street ■ Torrance, California 90505 U.S.A. ■ Tel. No.: (213) 530-3530  
FAX: (G2/G3) 213-534-8419 ■ TELEX II: 910-349-6200 DENSITRON TRNC



### DENSITRON EUROPE LIMITED

Unit 4, Airport Trading Estate, Biggin Hill, Westerham, Kent TN16 3BW, England ■ Tel. No.: (0959) 76600  
FAX: (0959) 71017 ■ TELEX: 957134